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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,727	10/28/2003	Rush E. Simonson	025929-000200US	6338	
	7590 10/10/200 AND TOWNSEND AN		EXAMINER		
TWO EMBARCADERO CENTER EIGHTH FLOOR			ARAJ, MICHAEL J		
	SCO, CA 94111-3834		ART UNIT	ART UNIT PAPER NUMBER	
			3733		
			MAIL DATE	DELIVERY MODE	
			10/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)				
	10/696,727	SIMONSON, RUSH E.				
Office Action Summary	Examiner	Art Unit				
	Michael J. Araj	3733				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	e correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	ON. e timely filed rom the mailing date of this communic DNED (35 U.S.C. § 133).				
Status	•	•				
	Responsive to communication(s) filed on <u>18 July 2007</u> .					
,	,—					
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under E	x parte Quayle, 1955 C.D. 11,	403 O.G. 213.				
Disposition of Claims						
4) \boxtimes Claim(s) <u>21-30</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdray	wn from consideration.					
5) Claim(s) is/are allowed.						
,	6) Claim(s) 21-30 is/are rejected.					
,	7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examine	ır.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
,	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Off	ice Action or form PTO-15	2.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119)(a)-(d) or (f).				
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document		cation No				
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau	u (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
÷						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	4) Interview Summ Paper No(s)/Ma					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	I	al Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21-23 and 25-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michelson (U.S. Patent No. 6,436,098) in view of Ralph et al. (U.S. Patent No. 5,989,291).

Michelson discloses a surgical method for replacing damaged fibrocartilage between facing superior and inferior vertebrae in a patient's spine, each having a spinous process, comprising the steps of making a posterior incision into a patient's back in the vicinity of said damaged fibrocartilage, through said posterior incision, removing damaged fibrocartilage between said superior and inferior vertebrae, creating channels (as seen from Fig. 11A) in said facing superior and inferior vertebral surfaces and inserting posteriorly at least two permanently articulating vertebral implant devices between said superior and inferior vertebrae wherein there is at least one of said articulating vertebral devices on each side of a vertical medial plane defined by the spinous processes of said superior and inferior vertebrae. The channels formed are approximately parallel to the said vertical medial plane defined by said spinous

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processes of said superior and inferior vertebrae. The articulating devices each comprise a cushioning member (122) sandwiched between a superior (100) and an inferior support (106) wherein said superior support is placed into fixed contact with said superior vertebrae and said inferior support is place into fixed contact with said inferior vertebrae. The cushioning member can be considered to be a dampening matrix since it dampens part of the load absorbed. Also, protrusions (114) are formed into one or more of said supports which penetrate into vertebral tissue.

Michelson discloses the claimed invention except for two permanently articulated vertebral implants that permanently allow continued movement of said vertebrae with respect to one another. Ralph et al. disclose an articulating implant device (Fig. 6) that allows for permanent movement. The internal portion of the device (130) also acts as a spring that provides as strong restoring force when a compressive load is applied to walls of the device.

Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Michelson (U.S. Patent No. 6,436,098) in view of Ralph et al. (U.S. Patent No. 5,989,291) in further view of Beer et al. (U.S. Patent No. 5,458,642).

The combination of Michelson and Ralph et al. disclose the claimed invention except for the dampening matrix including a hydrogel core. Beer et al. disclose the use of a dampening matrix using a hydrogel core. It would have been obvious to one skilled in the art at the time the invention was made to the combination of Michelson and Ralph et al. to have the cushioning member include a hydrogel core in view of Beer et al.

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because the coil spring distributes forces acting on the disc between the springs and the hydrogel core to allow for normal movement of the vertebrae.

Response to Arguments

Applicant's arguments with respect to claims 21-30 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Araj whose telephone number is 571-272-5963. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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